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GenCore version 4.5
Capyright (c) 1401 - 2000 campuges [td
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OM protein - protein search, using sw model

Pun on-

April 24, 2002, 09-00-12 ; Search time 76.05 Seconds (Without alignments) 156.815 Million cell updates/sec

US-09-525-998A-2_00PY_41_201 941 Title:

CSNCKKSLECTKICLPQIEN 161 1 DSVCPQGKYIHPQNNSICT Perfect score: Sequence:

Scoring table:

BiosuM62 Capop 10.0 , Capext 0.5

lotal number of hits satisfying chosen parameters. 522463 seqs, 74073290 residues Searched:

length: 0 Minimum DB seq

length: 2000000000 Maximum DB

Listing first 45 summaries Post-processing: Minimum Match 0% Maximum Match 100%

Database

/S1DS2/gegdata/geneseq/geneseqp/AA1982, DAT: */S1DS2/gegdata/geneseq/geneseqp/AA1983, DAT: */S1DS2/gegdata/geneseq/geneseqp/AA1983, DAT: */S1DS2/gegdata/geneseqp/geneseqp/AA1985, DAT: */S1DS2/gegdata/geneseqp/AA1985, DAT: */S1DS2/gegdata/geneseqg/geneseqp/AA1985, DAT: */S1DS2/gegdata/geneseqg/geneseqg/AA1985, DAT: */S1DS2/gegdata/geneseqg/AA1985, DAT: */S1DS2/gegdata/geneseqg/AA1985, DAT: */S1DS2/gegdata/geneseqg/geneseqg/AA1985, DAT: */S1DS2/gegdata/geneseqg/AA1985, DAT: */S1DS2/gegdata/geneseqg/geneseqg/AA1985, DAT: */S1DS2/gegdata/geneseqg/AG1985, DAT: */S1DS2/gegdata/geneseqg/geneseqg/AG1985, DAT: */S1DS2/gegdata/geneseqg/geneseqg/AG1985, DAT: */S1DS2/gegdata/geneseqg/geneseqg/geneseqg/AG1985, DAT: */S1DS2/gegdata/geneseqg/genese /SIDSZ/grgdata/geneseg/genesegp/AA1980 DAT:*/SIDSZ/grgduta/geneseg/genesegp/AA1981.DAT:* A_Geneseq_1101:*

/SIDS2/gcgdata/geneseq/geneseqp/AA1987.DAT:*

/STDS2/gcgdata/geneseg/genesogp/AA1989.DAT:*/STDS2/gcgdata/geneseg/genese-qp/AA1990.DAT:* /SIDS2/gcgdata/geneseq/geneseqp/AA1988.DAT:* 10:

/SIDS2/gcgdata/geneseg/geneseap/AA1992_DAT.* /SIDS2/gcadata/geneseg/geneseapp/AA1993_DAT.* /SIDS2/gcgdata/geneseq/geneseqp/AA1991.DAT·*

/SIDS2/gradata/geneseg/genesegp/AA1994 DAT:*/SIDS2/gradata/geneseg/genesepp/AA1995 DAT:*/SIDS2/gcgdata/geneseg/genesegp/AA1996.DAT:* /SIDS2/gegdata/geneseg/genesegp/AA1997 DAT.*

/SIDS2/gngdata/gnneseg/genesegp/AA1999_bAT * /SIUS2/gcgdata/geneseg/genesegp/AA2900,DAT: * /SIDS2/gcgdata/geneseq/geneseqp/AA2001.DAT *

/SIDSz/gcgdata/geneseg/genesegp/AA1998.DAT:*

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		æ				
Posiil t		Outery				
. ON	Score	Match	Match Length DB	DB	qı	Description
-	941	100.0		~	AAP27496	Native 30 kD TNF i
7	941	100.0	161	19	AAW59664	Human soluble tumo
m	941	100.0		61	AAW52267	Soluble tumour nec
4	941	100.0		0.7	AAW89233	Tumour necrosis in
S	941	100.0		C1	AAB37676	Human 30 kDa TNF i
9	941	100.0	211	00	AAW89225	Tumour necrosis fa
7	941	100.0		-1	AAH55979	Thir! protein, Un
œ	941	100.0		16	AAR70108	TNF-R-GRPH fusion
90	941	100.0	311	07	AAW89229	Tumour necrosis fa
10	941	100 0		18	AAW33360	TBP(20-190)/hr:-ha
11	941	100.0	366	C.	AAWR922R	Tumour necrosis fa

ALIGNMENTS

AAR27495 Standard; protein; 161 AA. AARZ7496 RESULT

09-MAR-1993 (first entry)

Native 30 km TNF inhibitor.

Tumbur nectosis factor, ethylenn glycul, planmokinetics adolt respiratory distress syndrome, theumatorid arthritis; sqtie sh.P. polmoury filtrais, stacer.

Homo sapiens.

WC9216221-A.

0212080+0M26 13-MAR-1992;

01-0CT-1992.

91US-0669862. 15-MAR-1991; 17 JAN 1992;

(SYND) SYNERGEN INC.

Thompson RC; Evans RJ, Kohno I. Armes LG, Brewer MT,

WPI, 1992-348533/42.

New cthylana glycolated polypoptida(s) with improved pharmacoking the properties—for treating e.g. INE and IL-1 modising disparant, w.j. adal! respirating ty distance statisme.

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0;
                                                                                                                                                                                                           polypeptides may be used for treatment of TNF mediated diseases such as adult respiratory distress syndrome, pulmonary fibrosis, theumatoid arthritis, inflammatory bowel disease and septic shock. The same method may be applied to the interferkin i receptor antagonist II-Ira.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 STSKTPKEMGOVEISSTYDFPTVOTFKNOTFHYWSENLFGUFNOSLULNGTVHLSCQE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified to contain at least one non-native systeine residue, pref
at positions 1, 14, 105, 111 and/or 165. The non-native cysteine is
joined to a non-peptidic polymer, pref menomethory per via
thio-etter bonds. Two such TNF inhibitor mols, may be linked via
this non-peptidic spacer. The modified polypeptides show improved
pharmokiacite proputies, i.e. increased mol, wt. hence reduced
charance rate inhibitors, and reduced antiquistration, increased
sol of malive TNF inhibitors, and reduced antiquistration, increased
                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                           1 DSVCPQGKYJHPQNNSICCTKCHKGTYLYNDCPGPGQDTTTCRRFFSGSFTASFNHLPHCL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 dsvcpqgkyihpqnnsicctkchkgtylyndcpqpgqdtdcreccsgsftasenhlrhcl 60
                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 941; DB 13; Length 161; 100.0%; Pred, No. 1.6 - 67;
                                                           The sequence shows a native 30 kD inFinhibitor which may be
                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human, tumbur necrosis factor; INF; INF receptor type I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammatory disease, leukaemia, TNF binding protein;
anti-inflammatory drug; methotrexatess.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human soluble tumour necrosis factor receptor type I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 KONTVÇTCHAGPELPENECVSCSNCKKŞI EÇTKLÇLEQLEN 161
                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
rheumatoid arthritis, septic shock etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bendele AM, Edwards CK, Sennello RM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAW59664 standard; Protein; 161 AA
                                Claim 54; Fig 2; 100pp; English.
                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97WO-US22733.
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                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                                                                                             161 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                          Matches 161;
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                                                                                                                                                                                                                                                                                                            Sequence
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tumour necrosis factor binding protein; autoimmune disease; arthritis; adult respiratory distress syndrome, cachexia/anorexia; cancer; therapy; chronic fatigue syndrome, graft rejection, Alzheimer's disease; TNBP.
                                                                                                                                                                                                                                                                                                                                                                61 SYSKYPKEMGQVETSSYTVD#LTV/GGPKNQYEHYWSENLFQGFN/SLGLNGTVHLS/QQE 120
                                                                                                                                                                                                                                                                                                                                                                               Soluble tumour necrosis factor receptor; STNFR; INF-mediated disease;
                                                                                                                                                                                                                                                                      Gaps
Treatment of acute or chronic inflammatory disease, e.g. leukaemia - by administering tumour necrosis factor binding protein and at least one additional anti-inflammatory drug, e.g. methotrexate
                                                                                                            rereptor type I, used in the method of the invention involving the treatment of soute or chronic inflammatory disease such as leukacmia by administering tumoun nectosis factor binding protein and at least one additional anti-inflammatory drug, e.g. methotrexate.
                                                                                                                                                                                                                                                                                                  1 DSVCPQGKYJHPQNNSIGGTKGHKGTYLLYNDFQGPGDGTDFREFESGSFTASENHLRHCL 60
                                                                                             This is the amino acid sequence of the human tumour necrosis factor
                                                                                                                                                                                                                                                                                                                    useful for treating diseases involving factor, e.g. arthritis and adult respiratory distress syndrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Truncated and soluble forms of tumour necrosis factor receptor -
                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                     100.0%; Score 941; DB 19; Length 161; 100.0%; Pred. No. 1.6e-67;
                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                           121 KONTVCTCHAGFFLRENECVSCSNCKKSLECTKILCLPQIEN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                            121 kgntvctchagiflrenecvscsnckkslectklclpgien 161
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                                                                                                                                                                                                                                                 100.0%; Pred. m.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Soluble tumour necrosis factor receptor.
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                                                              Disclosure, Fig 1, 104pp, English.
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96US-0032534.
97US-0037737.
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                                                                                                                                                                                                                                                                      Matches 161, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1948-101052/09.
                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                         161 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (AMGE-) AMGEN INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-MAR-1997;
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06-DEC-1996;
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                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                       Quety Match
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authoritis, adult receiving associated any in mediated disease, cancer. Chronic fatlage syndrome, arail rejection, Alcheimer's disease and other autoimmune diseases. Cells transformed with a vector containing DNA encoded the procients of production of recombinant synks, which may also be used for measuring the amount of synks in samples and to raise antibodies against synks. When may also be used for measuring the amount of synks in samples and to traise antibodies against synks. When may also he used in preparation of therapeutic compositions for treating the above diseases. The synks proteins are well suited to large scale production (since they lack the demidation site in region 111-126, so are more stable in vivo); contain fewer dishiphide bonds and fewer cpitupes, making them less antigenic
                                 (SINEW). The protein was used to make the truncated SINEK proteins of the invention. The truncated SINEK proteins and tumour necrosis factor binding proteins (INEP) are used to treat any INE-mediated disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tumour necrosis factor receptor 1; TNFR-1; inhibitor; osteoprotegerin; OPG; chimeric; fusion; dimerisation domain; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 SCSKCRKEMODVELSSCTVDRDTVCCCRKNDYRHYWSENLEGGENGSECLNGTVHLSCQE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 scskcrkemqqveissctvdrdtvcqcrknqyrhywsenlfqcincsicInqtvhlscqe 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 DSVTPØGRYTHPQNNSITGIRCHKGTYLYNGGPGGDIDGREGESGSFTASENHLRHGL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence is the human soluble tumour necrosis factor receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New chimeric ostcoprotegerin polypeptides - contain the ostcoprotegerin dimerisation domain and a heterologous sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                      ċ
                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 941; DB 19; Length 161; 100.0%; Pred. No. 1.6e-67; tive 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 KONTVCTCHAGFFIRENEGVSGSNGKKSILECTRIGLEGIEN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 useful to treat INF and INFR-mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tumour necrosia inhibitor 30 kma protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW89233 standard; Protein; 161 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Fig 2: 92pp; English
                                                                                                                                                                                                                                                                                                                                                                                                             al Similarity 100.0%;
161; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98WO-US08631
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation; apoptosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-034661/03.
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                                                                                                                                                                                                                                                                                                                                                                                                               Hest Local Similarity
                                                                                                                                                                                                                                                                                                                                  161 AA;
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                                                                                                                                                                                                                                                                                                                                      Sequence
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The present invention describes a chimeric polypeptide (Al), computation an extroprotectric (MG) dimerisation domain fast to a heterologous amino acid sequence. Also described are: (1) a multiment polypeptide comprising covalently associated Al monomers: (2) an isolated uncleic 3:(2) an isolated uncleic 3:(3) an isolated uncleic acid sequence, and (4) a host rell transferramed or transferred with the expression acids as that the manifer acid is expression acids as that the manifer acid is expression.
                                                                                                                                                                                                                                                                                       including those related to receptor binding. Compositions comprising tunner or research (10), of such the resistor (2007) and the resistor (2007) are chimeras are used to treat ThY and THYE mediated disorders such as intlammation autoimmune diseases and disorders related to excessive apoptosis. The chimeras are also useful for detecting molecules which interact with fused heterologous sequences to identify potential new receptors and ligands. The present sequence topresents the two tubulbitor to kin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 SOSPOPPEMAQUEISSOTVERSTROPPERMOTERIALO ENTALCIALITATE CON EL CONTROPPEMACONE DE PROPERMOTERIALO DE LA CONTROPPEMBACONE PROCEDANTE PROPERMO DE PROPERMO DEPARMO DE PROPERMO 
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IL-1; inflammatory disease; degenerative disease; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 ESVOPÇORYTHEÇANSIYOTROHKOTYLYHEGEGESQUATONECESSSETASENHIRHOL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100-10%; Score 94;; DH 26, length 16;; log.0%; Pred. No. 1.60-67;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Squires C. King MW. Hale KK. Brewer MT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vannice J. Kohno I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB37676 Standard: protein; 161 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 93US-0090466.
89US-0481080.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8935-0455329.
9035-0479661.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human 30 kDa INF inhibitor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001 006444/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    151 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; AACB 1945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vanderslice RW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-JAN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-JUL-1989;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 151;
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Novel 30 kDa tumor necrosis factor inhibitor analog comprising a non-native cysteine residue crass-licked with polyphyloge alyent, useful for treating inflammatory and degenerative discases mediated by
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Claim 1; Fig 19; 82pp, English.

The present invention relates to Tumour Necrosis Factor (TNF) inhibitors (see AAB37676 and AAB37685), which have TNF inhibitory activity. The movel TNF inhibitors of the present invention are useful as therapeutic agents for inhibiting the activity of TNF and interleukin (IL-1), and for treating inflammatory and degenerative diseases mediated by TNF. The 30 KDm TNF inhibitor can inhibit TNF alpha.

Sequence 161 AA;

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c
                                                                                                                            61 SCSKOFKEMGDVELSSTIVIPPLIVTFFFNDYFHYWSENLFDFFNSEJLNJIVHLSDQE 120
                                Sign
                                                        1 DSVCPQCKY LHPONNS LCCTKCHKG FYLYNDCPGPGDGDTPCRECESGSFTASENHLRHCL. 60
                                                                                    1 dsvepgakyihpannside ikethaleyiyandepapadiderecesasilasenhiihei 60
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                                                                         Length 161;
                               Indels
                                                                                                                                                                                 121 KQNTVCTCHAGFFLRENECVSCSNCKKSLECTKLOLPQIEN 161
 Score 941; DB 22;
Pred. No. 1.6e-67;
                               Mismatches
    100.0%; PE
                               Conservative
Query Match
Best Local Similarity
                             Matches 161;
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AAW89225 RESULT

AAW89225 standard; Protein; 211 AA.

AAW89225;

04-MAR-1999 (first entry)

Tumour negrosis tactor bpossis equaterin construct INEBp 4.0.

Tumour necrosis factor receptor 1, TNFR-1, inhibitor, osteopiotegerin, OPG; chimeric; fusion; dimerisation domain; autoimmune disease; inflammation; apoptosis.

Homo sapiens

Synthetic.

W09849305-A1

8661-AON-SO

98WO-US08631. 29-APR-1998;

97US-0850188. 01-MAY-1997;

(AMGE-) AMGEN INC.

MP1; 1999-034661/03.

Boyle WJ, Wooden S;

New chimeric osteoprotegerin polypeptides - contain the osteoprotegerin dimerisation domain and a heterologous sequence, useful to treat INF and INFP-mediated disorders

Example 1; Fig 4; 92pp; English.

The present invention describes a chimeric polypretide (Al), comprising an osteoprotegerin (OPG) dimerisation domain lused to a heterologous

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multiple sclerosis, detequatesis, usteronychilis; asthma; inflammation; systemic Lupus erythematusus, qraft versus host disease; septic shock; acute pancreatitis; Alzheimer's disease; anorexia; atherosclerosis; pain; coronary condition; mycardial infarction; cancer, disbetes; psoriasis; endometriosis; fever; glomerulonephritis; inflammatory bowel disease;
amino acid sequence. Also described are: (1) a multimer polypeptide comprising covalently associated AI monomers; (2) an isolated nucleic acid encoding AI, (3) an expression vector comprising the nucleic acid scquence, and (4) a host cell transformed or transfected with the expression vector so that the nucleic acid is expression vectors that the nucleic acid is expression to the present invention are useful to treat a variety of disorders
                                                                                                                                                        are used to treat TNP and TNPR-mediated disorders such as inflammation, autoimmune diseases and disorders related to excessive apoptosis. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Treating conditions leading to bone loss such as rheumatord arthritis, multiple sclerosis and asthma, comprises administering an
                                                                                                                  including those related to receptor binding. Compositions comprising tumour necrosis factor (TNF)/OPG and TNF receptor (TNF)/OPG chimeras
                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 SCSKCPREMTQVETSSCTVDPDTVGGGPRNQYBBWSENFPQGFNGSLOLNGTVHLSGGB-120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chimeras are also useful for detecting molecules which interact with fused heterologous sequences to identify potential new receptors and ligands. The present sequence represents a TNPbp/ob6 construct from
                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                              1 DSVCPQGKYIHPQNNSICCIKCHKGIXLYNDCPGPGQDTDCRECESGSFTASENHLRHCL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mone loss; osteoprotegerin; OPG; rheumatoid arthritis; hyperalgesia;
                                                                                                                                                                                                                                                   the example of the present invention for creating INFbp/DPG tusion
                                                                                                                                                                                                                                                                                                                                                                                                            .;
                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 941; DB 20; Length 211;
                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121 KONTVOTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIEN 161
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                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. 20-67;
Mismatches C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB66979 standard; Protein; 280 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                            0 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       schaemia; Parkinson's disease.
                                                                                                                                                                                                                                                                                                                                                                                          100.08;
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                                                                                                                                                                                                                                                                                                                                                                                                            Matches 161; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Boyle WJ, Lacey Dt.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-103031/11.
                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                             Sequence 211 AA;
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                                                                                                                                                                                                                                                                             proteins
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94GB-0018450. 94GB-0017621.

03-SEP-1993; 23-AUG-1994;

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                                                                                              The present invention relates to a method for treating conditions leading to bone loss. The method comprises administering a purified and isolated osteoprolegerin (OPG) protein (AAFS/RESEAFS/RE) and AABERWA-AABERWA in conjunction with other substances such as tumour necrosis factor-alpha
                                                                                                                                                                      (TNF alpha) inhibitors, interletkin (IL)-6. B and -18 inhibitors, ICE modulators, fibroblast growth factor (FGF)1-10 modulators and/or platelet activating tactor (PAF) aniagonists. The method is useful for trealing conditions leading to bone loss such as rheumatoid arthritis, multiple conditions leading to bone loss such as rheumatoid arthritis, multiple colernsis, osteoporosis, asteoryelitis and istems. The method is also graft-versus host disease (SAH) subtraction inflammation, systemic lupus crythematosus (SAH) and include acute panereatitis. Alzheimer's disease, ancrexia, atherosclerosis, coronary conditions (e.g. mycardial intarriton), cancer, diabetes, and wenties is there. Journal properties in the method is a sequence proclasses and septic slock. The present sequence was used in a sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hybrid peptide; malaria parasite; Plasmodium falciparum; fusion protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       41 dsvcpqgkyihpqnnsinctkchkgtylyndcpgpgqdtdcrecesgsftasenhirhel 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 SCSKCRKEMGQVETSSCTVURETVOGGRENOYRHYWSENLFOCFNCSLCLNGTVHLSCQE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                O; Caps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    red blood cell; cytokine receptor; alycophoria binding peptide 130;
GBP 130; GBPH; alycophoria bindina peptide homologue; alycophoria A;
tumour necrosis factor receptor; INP-R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /Tabol - repeat_region
/nore= "can be repeated n times, where n is a real
osteoprotegerin protein in conjunction with e.g. inhibitors of interleukin and tumor necrosis factor alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 941; DR 22; Longth 280; 100.0%, Prod. No. 2.60-67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 KONIVCTICHACEPT PENVEVSCSNOKKSLECTKLICT POTEN 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location Octalitiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR70108 standard; Protein; 309 AA
                                                          Disclosure; Fig 2; 316pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chimeric Plasmodium talciparum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   94WO-GB01900.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-NOV-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INF-R-GBPH fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 161; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                       homology comparison.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                             280 AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-SEP-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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ryb:id peptides for binding cytekines, comprising a malarid parasite (Flasmodium faiceparum) peptide (capable of binding to a red blood of 11 (FBC)) and a receptide (capable of binding to a red blood of all these byteld peptide are claimed. AAR73104 25 are examples of these byteld peptides. AAR70108 to a bision of tumour necrosis factor receptor (in arcordance with H Lockscher et al fell, Vol. 61, 351-359) and 419 octobrin binding protein (SHC) homorous (SBCM). However, 61, 351-359 of cytokine can bind harmless by to the RHC without deleterious offect. The RBC proteins for normally found on RHCs means that the cytokine can bind harmless by to the RHC without deleterious offect. The RBC proteins the hybrid peptides from a receptor in a norther cell. GHE 130 or GBPH are the predict malaria parasite peptides another cell. GHE 130 or GBPH are the predict malaria parasite peptides which, others include GHA 175 km of the predict malaria parasite peptides for malaria morozonic surface antiquo) and the Outry binding receptor molecule (Sq. cxhibited by Plasmodium virux). These peptides bind to pred quest, the physical periodic is a large proteins. Lord on the sulface of the fyrest face leads of the circulation to reduce pathological damage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dumour necrosis factor receptor 1; INFR-1; indicitor; esteoprotegerin; (45) chimeric; tusion; dimerisation domain; autonomnose disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 SCSKCHERMOOVELSSCLVIPLIVGGCRRNOVRBYWSENLPÇCFNGSLCLNGTVHLSCQL 1.20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6. Gaps
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                                                                                                                                                                                                                                                                                                                                                 New hybrid poptide(s) for binding cytokine(s) - comprising a malaria parasite peptide capable of binding a red blood cell and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Low.0%, arore 941; DB L6; Length 309;
100.0%; Pred. No. 2.8e 67;
ative 6, Mismatches 6, indeis 6,
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Best Local Similarity 100.0
Matches 161, Conservative
                                                                                                                (PRENZ) PRENDERGAST K F.
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                                                                                                                                                                                                                                                                  WPI; 1905-115452,75.
                                                                                                                                                                                                                                                                                                                                                                                                                                a receptor peptide.
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                                                                                                                                                                                               Prendergast KF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
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The present invention describes a chimeric polypeptide (AI), comprising an osteoprotegerin (0FG) dimerisation domain fused to a hererologous amino acid sequence. Also described are: (1) a multimer polypeptide comprising covalent; associated AI moromers, (2) an isolated nucleic acid encoding AI, (3) an expression vector comprising the nucleic acid encoding AI, (3) an expression vector comprising the nucleic acid encoding AI, (4) a lost cell transformed or transfected with the
                                                                                                                                                                                                                                                                                                                                                                                                                                            expression vector so that the modeled acid is expressible. The products from the present invention are useful to treat a variety of disorders including those related to receptor binding compositions compressing tumour necrosis factor (INP)/ADS THY receptor (INP)/ADS chimeras are used to treat the and these related disorders such as inflammation, autoimmune diseases and disorders related to excessive apprecis The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 SCSKCRKEMGQVETSSCTVDRDTVCGCRKNQYRHYWSENLFOCENCSLCLNGTVHLSCQE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lused heterologous sequences to identify potential new receptors and
ligands. The present sequence represents a TNFbp/opG construct from
the example of the present invention for creating iNFbp/OPG fusion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chimeras are also useful for detecting molecules which interact with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 DSVCPQGKYTHPQNNSIGGTKGHKGTYLYNGGPGGGTFGPFGGSFTASENHLRHGL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fusion profein, thrombopoletin: TPO; human chorionic gonadotrophin; beta subunit; hCG-beta.
                                                                                                                                                                                                            New chimeric osteoprotegerin polypeptides - contain the osteoprotegerin dimerisation domain and a heterologous sequence, useful to treat INF and INFR-mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 100 0%; Score 941; DR 20; Length 311; Rest Local Similarity 100 0%; Prod No. 2.8e-67; Matches 161; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 KONTVCTCHAGFFLRENECVSCSNOKKSLECTKLCLPQIEN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TBP(20-190)/hCG-beta fusion protein.
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                                                                                                                                                                                                                                                                                          Example 1: Fig 4: 92pp: English.
                  98WO-US08631
                                                       9705-0850188
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                                                                                                                                                                          WPI; 1999-044661/03.
                                                                                                                                     Boyle WJ, Wooden S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       111 AA;
                                                                                              (AMGE-) AMGEN INC.
                  29-APR-1998;
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                                                       01-MAY-1997,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-AUG-1997
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Tumour necrosis Lactor receptor 1; TNFR-1; inhibitor; osteoprotequerin; oFG; chimetic; fusion; dimerisation domain; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 SCSKCKKEMGQVEISSCIVDRLIVGGCKKNQYKHYWSENLFQCFNGSLCLNGIVHLSCQE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              I DSVCPQGKYIHPQNNSICCIKCHKGTYLYNDCFGPGQDIDCKECESGSFTASENHLKHCL 60
                                                                                                                                                                                                                                                                                                           A novel fusion protein comprises 2 dimer forming co-expressed amino acid sequences, each consisting of a homodimeric or heterodimeric beceptor chain or ityand, with ligand-receptor binding activity, bound directly or via a peptide linker to a subunit of a heterodimeric protein hormone capable of forming a heterodimer with the hormone's other subunits. The fusion protein, a.g. the hrambopolerin (PVO)/Puman chorinoin ganadorrophin-beta subunit (hS:beta) fusion protein denoted by the present sequence, significantly increases the biological activity of the hormone component, reducing the requirement for hormone itself and the number of injections needed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23 dsycpqgkyihpqnnsicctkchkgtylyndcpgpqqdtdcrecesgsftascnlirhel 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 94); DH 18; Length 346;
; Pred. No. 3.1e-67;
0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pumour nevrosis factor bp/ostcoprotegerin construct INFbp/248
                                                                                                                                                                                                          Hybrid dimeric protein comprising two co-expressed units – ea
based on receptor or ligand and a subunit of a heterodimeric
                                                                                                                                                                                                                                             hormone, especially FSH, for inducing follicular maturation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 KONTVCTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIEN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISTF ) ARS APPLIED RES SYSTEMS HOLDING NV.
                                                                                                                    Campbell RK, Chappel SC, Jameson BA;
                                                                                                                                                                                                                                                                                Example; Pages 39-40; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAW89228 standard; Protein; 366 AA.
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Matches 161; Conservative C
                97WO-US02315.
                                                    95US-0011936.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammation; apoptosis.
                                                                                                                                                         WPI; 1997-425036/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           336 AA;
                                                                                                                                                                           N-PSDB; AAT94022
              20-FEB-1997;
                                                    ZU-FEB-1996;
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The present invention describes a chimeric polypeptide (A1), comprising an osteoprotegerin (OPG) dimerisation domain fused to a heterologous amino acid sequence. Also described are: (1) a multimer polypeptide comprising covalently associated AL monomers: (2) an isolated nucleic acid encyding A1: (3) an expression vector comprising the nucleic acid aequence; and (A) a host cell transformed on transferred with the expression vector so that the nucleic acid is expression vector so that the nucleic acid is expressible. The products from the present invention are useful to treat a variety of disorders including those related to receptor binding. Compositions comprising tumour necrosis factor (NFP). OPC and TNF receptor (TNFP) per chimeras are used to treat and TNFP mediated disorders are used to treat and TNFP mediated disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 autoimmune diseases and disorders related to excessive apoptosis. The chimeras are also useful for detecting molecules which interact with fused betrologous sequences to identify potential new receptors and ligands. The present sequence represents a "INPDp/OPG construct from the example of the present invention for creating INPDp/OPG fusion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              41 dsvepqd/jhpqaarieskehkatylyndepqpqdddereesgstassahlihi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             91 SCSKCPKEMGQVELSKYTVOROTVOOPPNQYPHYWSPNLMGYFNTSIOTNAGVELSCOR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.
15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 DSVCFQCEFTHEQNNSTCCT+C+C+C+C+VnCFCFCC+T+FFFCFSCSFTASINHLRHCL_E0
                                                                                                                                                          New chimeric osteoprotegerin polypoptides - contain the osteoprotegerin dimerisation domain and a heterologous sequence, useful to treat TNF and TNFR-mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 941; DB 20; Length 366; 100.0%; Pred. No. 3.3e-67; Live C. Mismatches P. Indels P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             lumour necrosis factor binding protein, INF-RP, TNF-receptor, pLNF-RP15, infectious disease; parasitic disease, cachexia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tumour Necrosis Factor Binding Protein from pTNF-BP15 cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 KONTVOTOHASFFLPENEOVSOSNOKKSLEOFKLOLPQIEN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR07449 standard; protein; 371 AA
                                                                                                                                                                                                                                             Example 1; Fiq 4; 92pp; English.
97US-0850188
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JAN-1991 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                Hoyle WJ, Wooden S;
                                                                                                                     WFI: 1999-034661/03.
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Matches 161, Conserv
                                       (AMGE-) AMGEN INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   366 AA;
01-MAY-1997;
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Clone pTNF-HPI5 was used to continct pADINF HP. for transfection of e.a. 0587 vells. The expressed poteins are useful prophylactically and therapeutically to control disorders which involve the damacing ellects of INF-lipha or their (e.a. intectious or parasitic diseases, shock, eachevia, autoimmune diseases, adult respiratory distress syndrome etc., or side effects of tredment with TNG-alpha). They can also be used as diagnostic reagents for assying TNF and is side. INF the effects of the client with Serying TNF and is side.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tumour necrosis factor receptor 1; INFR-3; inhibitor: estemprotegerin; OPG; chimerie: fusion; dimerisation domain; autonomnume disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FI STRETEREM LYELSS TYTELIN STERRESERESERLE, DIM SEGERALIVES 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 DSVCPQGKYTHFQNNSTOCTKCBKGTYLYND/TGPGGGDDJPGHSGSGSFTASENHURHCL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Talliona accasosão tocaba hobisticaja despesa a substanta a 138 do 217.
                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%. Srule 941, Db 12, Length 971;
160.0%: Pred. No. 3.3e<sup>+</sup>67;
                                                                                                                                                                        Lumour treatment and to understand mechanismserto INF action
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                             Stratowa C:
                                                                                                                                                      DNA encoding INF binding protein and INF- reseptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0: Mismatches
                                                                             Hauptmann R. Himmler A. Maurer-Fogy I.
                                                                                                                                                                                                    Disciosure; Fig 1(1-3); 51pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAW89227 Standard: Protein; 597 AA
                                             (BORE ) BOTHRINGER INGELHEIMINI
                  89DE-3913101.
 84DE-3920282
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 165.0
Matches 161: Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammation: apoptosis.
                                                                                                          WP4: 1990-321987/43.
                                                                                                                                                                                                                                                                                                                                                                                            1/1 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AMGE-) AMGENING.
                                                                                                                          N-PSDH; AAQ05282.
 21-JUN-1989;
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                21-APR-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 13
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The present invention describes a chimeric polypeptide (AI), comprising an osteoprotegerin (OPG) dimerisation domain fused to a heterologous
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                                                                                                                                                                                                                                                                                                    The products
                                                                                                                                                                                                                          amino acid sequence. Also described are. (1) a multimer polypeptide comprising covalently associated Al monomers: (2) an isolated nucleir acid encoding Al. (3) an expression vector comprising the nucleic acid sequence, and (4) a host cell transformed or transfected with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tumour necrosis factor teceptor 1, TNFR 1, ishibitor, oatcoprotegorin, OPG, chimeric; fusion; dimerisation domain; autoimmune disease;
                                                                                                                                                                                                                                                                                                expression vector so that the number and is expressible. The product from the present invention are useful to treat a variety of disorders including those related to receptor binding. Compositions comprising tumour necrosis tachor (TNP)/NPG and TNP receptor (TNP)/APG whimeras
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPSK/PREMODVE/SSCTVIPPLYCORRINGYRHYMSENLFOGENGSLOLINGTVHLSCOR 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lused heterologous sequences to identify potential new receptors and
ligands. The present sequence represents a INFbp/OPG construct from
the example of the present invention for creating INFbp/OPG fusion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 DSVCPQAKYTHPQNNSIAATKAHKATXINDARGPGQDIDAREDESSSFIASENHIKHAL 60
                                                                    New chimeric osteoprotegerin polypoptides - contain the osteoprotegerin dimerisation domain and a heterologous sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumour necrosis factor bp/ostcoprotegerin construct TNFbp/196.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 941; DB 20; Length 397; 100.0%; Pred. No. 3.6e-67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.21 KONTVITITAGPELBENEVSCSBOKKSLEOTKEOLPOIEN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                              useful to treat INF and INFR mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAW89226 standard; Protein; 417 AA.
                                                                                                                                                   Example 1, Fig 4: 92pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 161; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammation; apoptosis.
 Boyle WJ, Wooden S;
                                   WPT; 1999-034661/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hest Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            397 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
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The present invention describes a chimeric polypeptide (A1), comprising
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                                                                                                                                                                                                                                                                                                                                          The products
                                                                                                                                                                                                                                                                                                                                                                                              tunnour necrosis factor (TNF)/OPG and TNF receptor (TNFR)/OPG chimeras are used to treat TNF and TNFR mediated disorders such as inflammation, autoimmune diseases and disorders related to excessive apoptosis. The chimeras are also useful for detecting molecules which interact with fused heterologous sequences to identify potential new receptors and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumour necrosis factor receptor 1; TNFR-1; inhibitor; osteoprotegerin; OPG; chimeric; lusion; dimerisation domain, autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41 dsvcpqgkyihpqnnsicetkchkgtg?yndcpgpgqdtdcreeesgsftasenhlihel 100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ligands. The present sequence represents a INFUp/OPG construct from the example of the present invention for creating INFUp/OPG fusion
                                                                                                                                 osteoprotegerin dimerisation domain and a heterologous sequence, useful to treat TNF and TNFR mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%, Score 94%, DB 20% Length 417%, 100.0%; Pred. No. 3.7e-67%
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                                                                                                             New chimeric osteoprotegerin polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
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                                                                                                                                                                                     example 1; Fig 4; 92pp; English.
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                                   Boyle WJ, Wooden S;
                                                                         WPI; 1999-034661/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rest Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     417 AA;
(AMGE-) AMGEN INC
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an osteoprotegerin (OPG) dimerisation domain lused to a heterologous amino acid sequence. Also described are: (1) a multimer polypeptide comprising covalently associated Al monomers, (2) an isolated nucleic acid acid encoding Al. (3) an expression vector comprising the nucleic acid sequence; and (4) a host cell transformed or transforcted with the expression vector so that the nucleic acid is expressible. The products from the present invention are useful to treat a variety of disorders including those related to receptor binding. Compositions comprising tumour necrosis factor (TNF)/OPG and TNF receptor (TNFR)/OPG chimeras are used to treat TNF and TNF mediated disorders such as inflammation.
                                                                                                                                                                                                                                                                                                                                        The present invention describes a chimeric polypeptide (A1), comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      autoimmune diseases and disorders related to excessive apoptosis. The chimeras are also useful for detecting molecules which interact with tused heterologous sequences to identify potential new receptors and liquads. The present sequence represents a TNFbp/OpG construct from the example of the present invention for creating TNFbp/OpG fusion
                                                                                                                                                                                       New chimeric osteoprotegerin polypeptides - contain the osteoprotegerin dimerisation domain and a heterologous sequence, useful to treat INF and INFR-mediated disorders
                                                                                                                                                                                                                                                                                       Example 1; Fig 4; 92pp; English.
01-MAY-1997; 97US-0850188
                                                                                              Boyle WJ, Wooden S:
                                                                                                                                           WPI; 1999-034661/03.
                                                (AMGE-) AMGEN INC.
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420 AA; Sednence

0 61 SCSKÇHKEMQQVETSSCTVINRIDTVAGCHKNÖYRHYWSENLPQCFNCSLALINGTVHLSCOR 120 0; Caps 1 DSVCPQGKYTHPQNNSICTIKCHKGTYLYNDCFGPGQDIDCRBCBSGSFFASENHLRHCL 60 Ouery Match 100.0%; Score 941; DB 20; Length 420; Best Local Similarity 100.0%; Pred. No. 3.7e-67; Indels 121 KUNIVCICHAGFFLIKENBOVSOSNOKKSLECIKLOLPQIEN 161 0; Mismatches Conservative Matches 161; ें 5

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